

Product Data Sheet

Alexa Fluor® 700 anti-human CD3

Catalog # / Size: 300423 / 25 µg

300424 / 100 µg

Clone: UCHT1

Isotype: Mouse IgG1, κ

Workshop Number: III 471

Reactivity: Human, Cross-Reactivity: Chimpanzee

Preparation: The antibody was purified by affinity chromatography, and conjugated with

Alexa Fluor® 700 under optimal conditions. The solution is free of

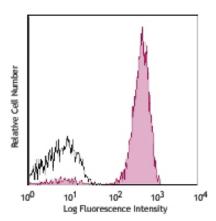
unconjugated Alexa Fluor® 700.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The CD3 antibody solution should be stored undiluted at 4°C, and protected

from prolonged exposure to light. Do not freeze.



Human peripheral blood lymphocytes stained with UCHT1 Alexa Fluor®

Applications:

Applications: FC - Quality tested

Recommended Usage: This reagent is developed for immunofluorescent staining for flow cytometric analysis; the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is highly recommended that the reagent be titrated for optimal performance for each application.

> * Alexa Fluor® 700 has a maximum emission of 719 nm when it is excited at 633 nm / 635 nm. Prior to using Alexa Fluor® 700 conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

> Alexa Fluor® 700 is a registered trademark of Molecular Probes, Inc. Alexa Fluor® 700 dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes:

Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections^{4,6,7} and formalin-fixed paraffin-embedded sections¹¹, immunoprecipitation¹, activation of T cells^{2,3,5}, and Western blotting⁹. The LEAFTM purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 300414). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 300438) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/µg).

- Application References: 1. Salmeron A, et al. 1991. J. Immunol. 147:3047. (IP) 2. Graves J, et al. 1991. J. Immunol. 146:2102. (Activ) 3. Lafont V, et al. 2000. J. Biol. Chem. 275:19282. (Activ) 4. Ryschich E, et al. 2003. Tissue Antigens 62:48. (IHC) 5. Thompson AG, *et al.* 2004. *J. Immunol.* 173:1671. (Activ) 6. Sakkas LI, *et al.* 1998. *Clin. Diagn. Lab. Immun.* 5:430. (IHC) 7. Mack CL, *et al.* 2004. *Pediatr. Res.* 56:79. (IHC) 8. Thakral D, et al. 2008. J. Immunol. 180:7431. (FC) PubMed 9. Van Dongen JJM, et al. 1988. Blood 71:603. (WB) 10. Yoshino N, et al. 2000. Exp. Anim. (Tokyo) 49:97. (FC)
 - 11. Pollard, K. et al. 1987. J. Histochem. Cytochem. 35:1329. (IHC)

12. Na IK, et al. 2013. Haematologica 98:23. PubMed

Description: CD3ε is a 20 kD chain of the CD3/T-cell receptor (TCR) complex which is composed of two CD3ε, one CD3 γ , one CD3 δ , one CD3 δ , one CD3 δ (CD247), and a T-cell receptor (α/β or γ/δ) heterodimer. It is found on all mature T lymphocytes, NK-T cells, and some thymocytes CD3, also known as T3, is a member of the immunoglobulin superfamily that plays

a role in antigen recognition, signal transduction, and T cell activation.

Antigen References: 1. Barclay N, et al. 1993. The Leucocyte FactsBook. Academic Press. San Diego.

2. Beverly P, et al. 1981. Eur. J. Immunol. 11:329. 3. Lanier L, et al. 1986. J. Immunol. 137:2501-2507.

Related Products: Product Clone Application Cell Staining Buffer FC, ICC, ICFC RBC Lysis Buffer (10X) Alexa Fluor® 700 Mouse IgG1, κ Isotype Ctrl FC, ICFC

MOPC-21 FC, ICFC Human TruStain FcX™ (Fc Receptor Blocking Solution) FC, ICC, ICFC



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